			Reg. No.							
		Question Paper Code	13042	2						
M.E. / M.Tech DEGREE EXAMINATIONS, NOV / DEC 2024										
Second Semester										
M.E Computer Science and Engineering										
20PCSPC203 - CLOUD COMPUTING TECHNOLOGIES										
Regulations - 2020										
Duration: 3 Hours Max. Marks: 100										
$PART - A (10 \times 2 = 20 \text{ Marks})$							Marks	Marks ^{K–} CO Level		
1.	What	Answer ALL Q is meant by Emulation?	uestions				2		CO1	
2.		in the term Virtualization.					2	K2	<i>CO1</i>	
3.	-	resource pool.					2	K1	<i>CO2</i>	
4.		ain in short the concepts of virtual workl	oad allocatio	n.			2	K2	<i>CO2</i>	
5.	-	he main characteristics of cloud comput					2	K1	CO3	
6.	Defir	e the role of cloud auditor and cloud bro	oker.				2	K1	CO3	
7.	Reca	ll the uses of Open stack.					2	K1	<i>CO</i> 4	
8.	Ment	ion the advantages of using Hadoop.					2	K1	<i>CO</i> 4	
9. Outline the security issues in the cloud.						2	K2	<i>CO6</i>		
10.	What	is Trust Management?					2	K1	<i>CO6</i>	
PART - B ($5 \times 13 = 65$ Marks) Answer ALL Questions										
11.	a)	Discuss in detail about the VMs taxono	my.				13	K2	<i>CO1</i>	
OR										
	b) i)	Interpret about the server consolidation	in data cente	ers.			6		<i>CO1</i>	
	ii)	List the migration steps of VM and C VM.	lescribe perfe	ormanc	e effe	cts o	of ⁷	K2	CO1	
12.	a)	Discuss in detail about Virtualiz Mechanisms.	zation struc	ture,	Tools	an	d 13	K2	<i>CO2</i>	
		OR								
	b)	Explain the Virtualization of CPU, Mer	nory and I/O	•			13	K2	CO2	
13.	a) i)	Make use of a neat diagram to discuss about the NIST cloud computing reference architecture.	ıd 9	K3	CO3					
	ii)	Identify the pros and cons of cloud computing.					4	K3	CO3	
Kl -	– Reme	mber; K2 – Understand; K3 – Apply; K4 – Ana I	lyze; K5 – Eval	uate; K6	– Crea	ite		130	042	

OR

- b) Identify the different types of resource provisioning and explain each ¹³ K³ CO³ with an example.
- 14. a) What is Open Nebula Cloud? Discuss the main components of Open ¹³ K2 CO4 Nebula.

OR

- b) Illustrate the Hadoop framework with neat diagram in detail. 13 K2 CO4
- 15. a) i) Discuss in detail about data security and its applications with suitable 7 K2 CO6 examples.
 - ii) Illustrate in detail about the application security with an example. 6 K2 CO6

OR

b) Explain how the security governance, security monitoring and Risk ¹³ ^{K2} ^{CO6} management helps in providing cloud security.

PART - C $(1 \times 15 = 15 \text{ Marks})$

16. a) Infer the HDFS concepts with suitable illustrations and write a word ¹⁵ K4 CO5 count application with Hadoop Map Reduce programming model.

OR

b) Examine in detail about how to set up a private cloud for an academic ¹⁵ K4 CO5 university using any one of the cloud environments.